

**REMARKS****Claim Rejections – 35 U.S.C. 112**

- 5        Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1

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In claim 1, the description of the present invention is incomplete because the claimed filter does not have an input/output. Thus the claimed filter may not perform the recited function. Also, it is unclear how the transistors can operate as a large resistance resistor since this limitation is not clearly defined.

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Response:

- 20        Claim 1 is amended to specify an input port and an output port and to indicate how the input port and the output port are connected to the high-pass filter. Thus the claimed filter will perform the recited function. Claim 1 is also amended to show that by operating the first and the second transistors in the saturation mode, the first transistor and the second transistor are operated as a large-resistance resistor. This clearly defines how the transistors operate as the large resistance resistor.

25    Claim 4

In claim 4, the recitation “can” on line 4 is indefinite because it does not positively recite the claimed invention.

30    Response

The limitation of claim 4, which is moved to currently amended claim 1 in

response to allowable subject matter indicated by examiner (see below), is amended to recite the word "are" instead of "can be". This amendment positively recites the limitation that the first and the second transistor are operated in the saturation mode.

## 5 Allowable subject matter

Claims 4-6 would be allowable if rewritten to overcome the rejections(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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### Response

Because there are no intervening claims between claim 1 and claim 4, and because claim 4 is indicated by examiner as being allowable if rewritten to include all  
15 limitations of the base claim, claim 1 is amended to include all limitations of claim 4. Claim 4 is therefore cancelled, and claims 5 and 6 are amended to be dependent on claim 1.

Additionally, new claims 7-12 are added. Claim 7 is based on a combination of  
20 original claim 1 and limitations from original claim 4. New claim 7 removes the term "on-chip" from the preamble as the disclosed invention could also be used external to an integrated circuit. Additionally, claim 7 includes the limitation from original claim 4 that the second transistor has a third terminal connected to a third terminal of the first transistor. Such a connection is not taught by Song et al (US 6,091,289). New  
25 claims 8-11 correspond to claims 2,3,5,6, respectively; and new claim 12 adds the limitation from original claim 4 that the first and second transistors are operated in a saturation mode.

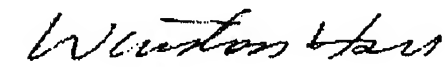
As all dependent claims are now dependent on claim 1 or claim 7, and as  
30 currently amended claim 1 and new claim 7 includes limitations indicated by examiner as being allowable, applicant hereby requests allowance of the application.

The applicant also requests that the examiner please confirm and, if necessary, restate the reasons for allowance of claim 4 (now 1) and claims 5-6, since claim 4 (now 1) does not recite third and fourth transistors.

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Sincerely,

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